

Publication list: Ingunn Burud (**h-index : 25**)

Peer review publications:

1. Stefansson, Petter; Indahl, Ulf Geir; Liland, Kristian Hovde; **Burud, Ingunn**
Orders of magnitude speed increase in Partial Least Squares feature selection with new simple indexing technique for very tall data sets. *Journal of Chemometrics* 2019 ;Volum 33.(11) s. 1-9 (2019)
2. Moni, Christophe; Silvennoinen, Hanna Marika; Kimball, Bruce A.; Fjellidal, Erling; Brenden, Marius; **Burud, Ingunn**; Flø, Andreas Svarstad; Rasse, Daniel.
Controlled infrared heating of an arctic meadow: challenge in the vegetation establishment stage. *Plant Methods* Volum 15. s. 1-12 (2019)
3. Mehl, Torbjørn; Wyller, Guro Marie; **Burud, Ingunn**; Olsen, Espen.
Increased sensitivity in near infrared hyperspectral imaging by enhanced background noise subtraction. Journal of Spectral Imaging, Volum 8.(a2) s. 1-8 (2019)
4. Stefansson, Petter; **Burud, Ingunn**; Thiis, Thomas Kringlebotn; Gobakken, Lone; Larnøy, Erik
Estimation of phosphorus-based flame retardant in wood by hyperspectral imaging—a new method. Journal of Spectral Imaging, 7, p 9 (2018)
5. Thiis, Thomas Kringlebotn; Gaitani, Niki; **Burud, Ingunn**; Engan, Jon Arne
Classification of urban blue green structures with aerial measurements. *International Journal of Sustainable Development and Planning. Volum 13.(4) s. 506-515 (2018)*
6. Berie, Habitu Taddese; **Burud, Ingunn**
Application of unmanned aerial vehicles in earth resources monitoring: Focus on evaluating potentials for forest monitoring in Ethiopia. European Journal of Remote Sensing. Volum 51.(1) p 326-335 (2018)
7. Charisi, Stergiani; Thiis, Thomas Kringlebotn; Stefansson, Petter; **Burud, Ingunn**
Prediction model of microclimatic surface conditions on building façades. Building and Environment. Volum 128. p 46-54 (2017)
8. **Burud, Ingunn**; Lange, Gunnar Felix; Lillemo, Morten; Bleken, Eivind; Grimstad, Lars; From, Pål Johan.
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9. Thiis, Thomas Kringlebotn; **Burud, Ingunn**; Flø, Andreas Svarstad; Kraniotis, Dimitrios; Charisi, Stergiani; Stefansson, Petter
Monitoring and simulation of diurnal surface conditions of a wooden facade. Procedia Environmental Sciences. Volum 38. p 331-339 (2017)
10. Mehl, Torbjørn; **Burud, Ingunn**; Letty, Elenore; Olsen, Espen
Oxygen-related defects in n-type Czochralski silicon wafers studied by hyperspectral photoluminescence imaging. Energy Procedia. Volum 124. p107-112 (2017)
11. Gaitani, N., **Burud, I.**, Thiis T., Santamouris, M.,
High-resolution spectral mapping of urban thermal properties with Unmanned Aerial Vehicles. Building and Environment, Volume 121, p 215-224 (2017)
12. Espen Olsen; Simen Bergan; Torbjørn Mehl; **Ingunn Burud**; Kai Erik Ekstrøm; Marisa Di Sabatino,
Defect related radiative recombination in mono-like crystalline silicon wafers, Physica Status Solidi, 10.1002/pssa.201700124 (2017)
13. Magnusson, Christer; Holgado, Ricardo; Davies, Keith; Peng, Deliang; Persdatter Tangvik, Marte; **Burud, Ingunn**
Patch dynamics for studies on nematode pathogenicity and reproductive rates using UAVs in Norway. Aspects of Applied Biology Volum 135. s. 65-71 (2017)

14. **Burud, I**; Mehl, T., Flø, A.S, Lausch, D., Olsen, E.
Hyperspectral photoluminescence imaging of defect in solar cells, Journal of Spectral Imaging, Volum 5 (2016)
15. Sandak, Anna; Sandak, Jakub; **Burud, Ingunn**; Gobakken, Lone Ross
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16. Sandak, A., **Burud, I.**, Flø, A., Thiis, T., Gobakken, L.R., Sandak, J. *Hyperspectral imaging of weathered wood samples in transmission mode* (2016) *International Wood Products Journal*; Volum 8. s. 9-13 (2016)
17. Torbjørn Mehl, Marisa Di Sabatino, Krzysztof Adamczyk, **Ingunn Burud** and Espen Olsen. *Defects in Multicrystalline Si Wafers Studied by Spectral Photoluminescence Imaging, Combined with EBSD and Dislocation Mapping*. Energy Procedia Vol 92, p130-137 (2016)
18. Smeland, K.A., Liland, K.H., Sandak, J., Sandak, A., Gobakken, L.R., Thiis, T., Flø, A., **Burud, I.** *NIR hyperspectral imaging in transmission mode : Assessing the weathering of thin wood samples*. Journal of NIR Spectroscopy, 24, 595-604 (2016)
19. **Burud, I.**, Moni, C., Steffens, M., Flo, A., Futsaether, C., Rasse, D. *Qualitative and quantitative mapping of biochar in a soil profile using hyperspectral imaging*. Soil and Tillage Research 155, 523-531 (2016)
20. Lausch, Dominik; Mehl, Torbjørn; Petter, Kai; Flø, Andreas Svarstad; **Burud, Ingunn**; Olsen, Espen. *Classification of crystal defects in multicrystalline silicon solar cells and wafer using spectrally and spatially resolved photoluminescence*. Journal of Applied Physics Volum 119:054501 (2016)
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23. Flø, A.S., **Burud, I.**, Kvaal., K., Søndena, R., Olsen, E. *Distribution of radiative crystal imperfections through a silicon ingot*, AIP Advances, 3, 112120 (2013)
24. **Burud, I**; Flø, A.S, Olsen, E.
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26. Eliasdottir, A.; Hjorth, J.; Toft, S.; **Burud, I.**; Paraficz, D.
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Book chapters

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1. Ole K Grindbakken, Bless Kufalor, Aleksander Hykkerud, Morten Lillemo and **Ingunn Burud**
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